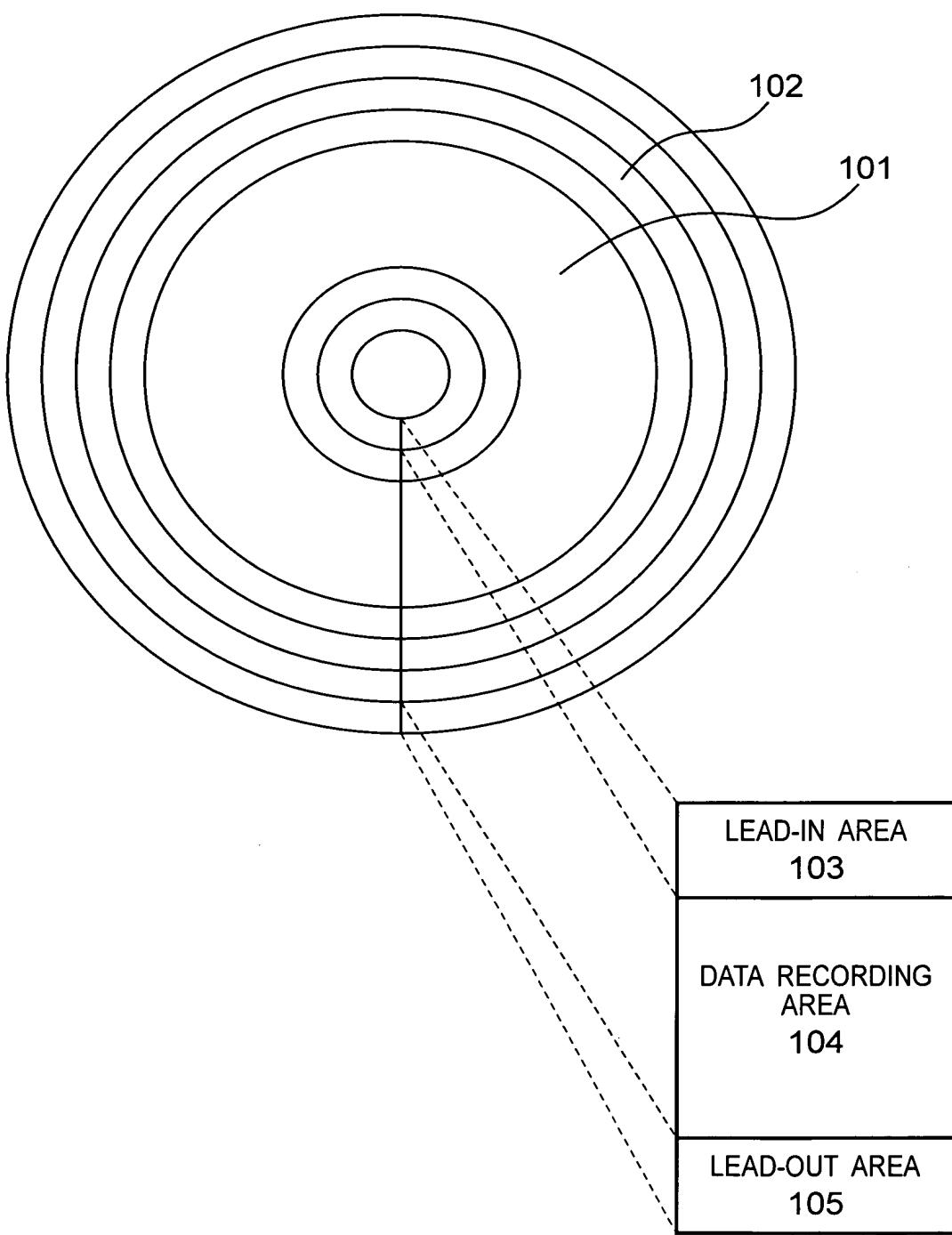


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Patent Drawing
RECORDED DRAWING

Fig. 1



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Fig.2

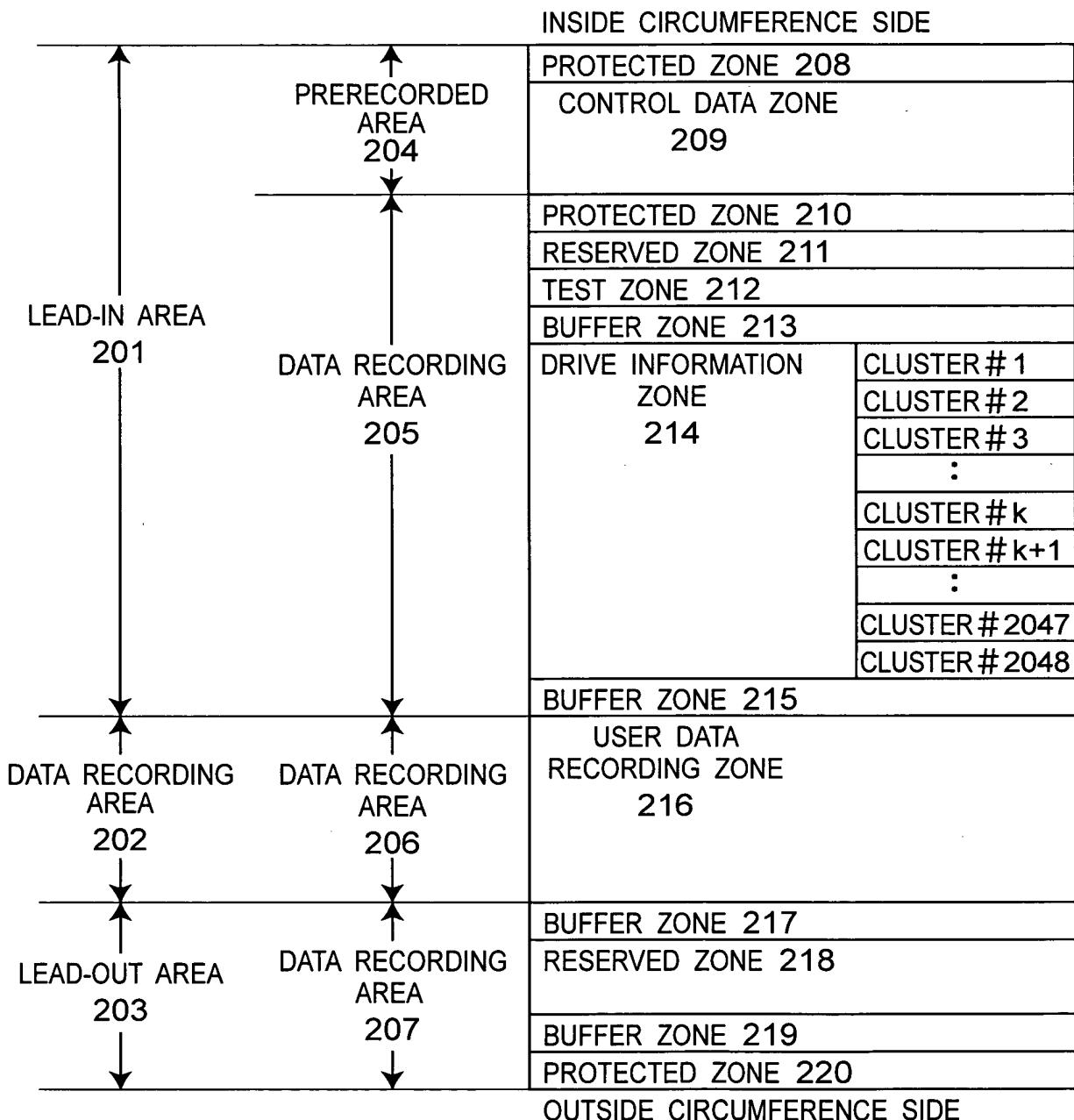


Fig. 3

ECC BLOCK CONFIGURATION

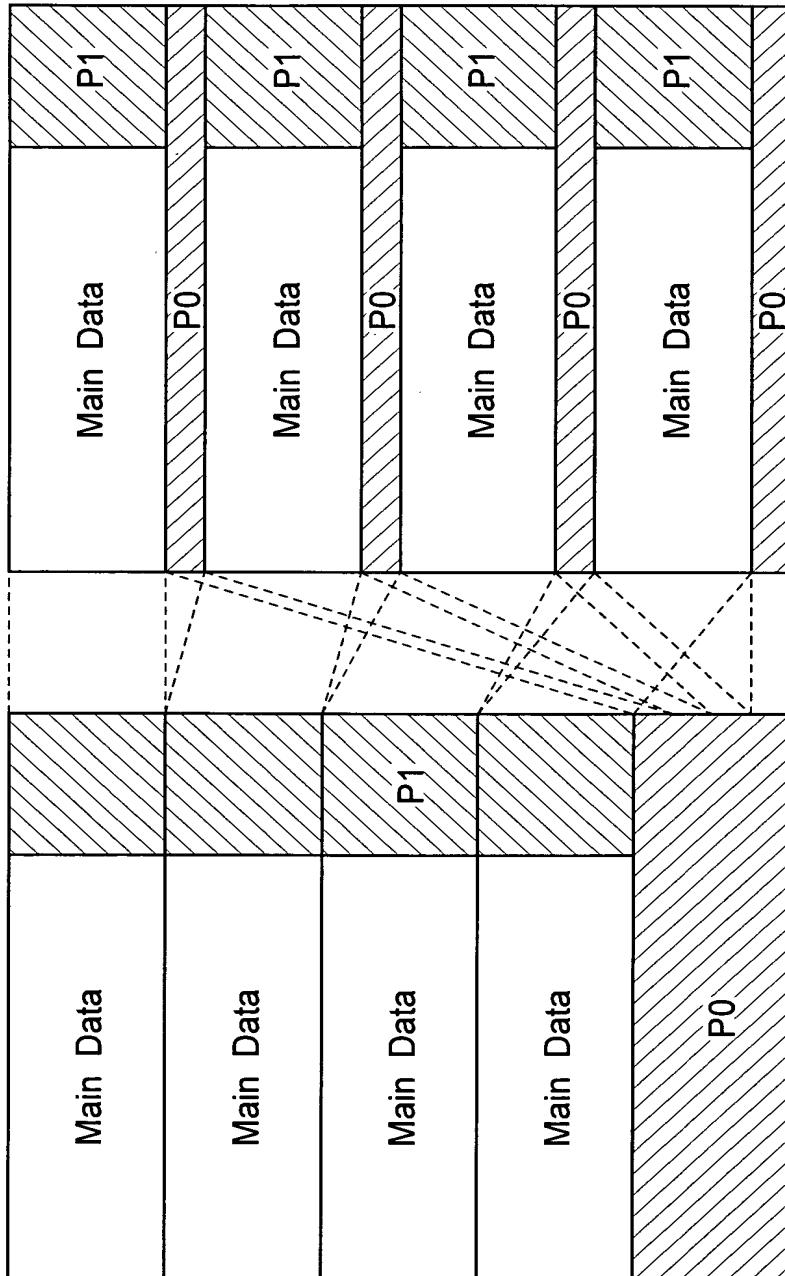
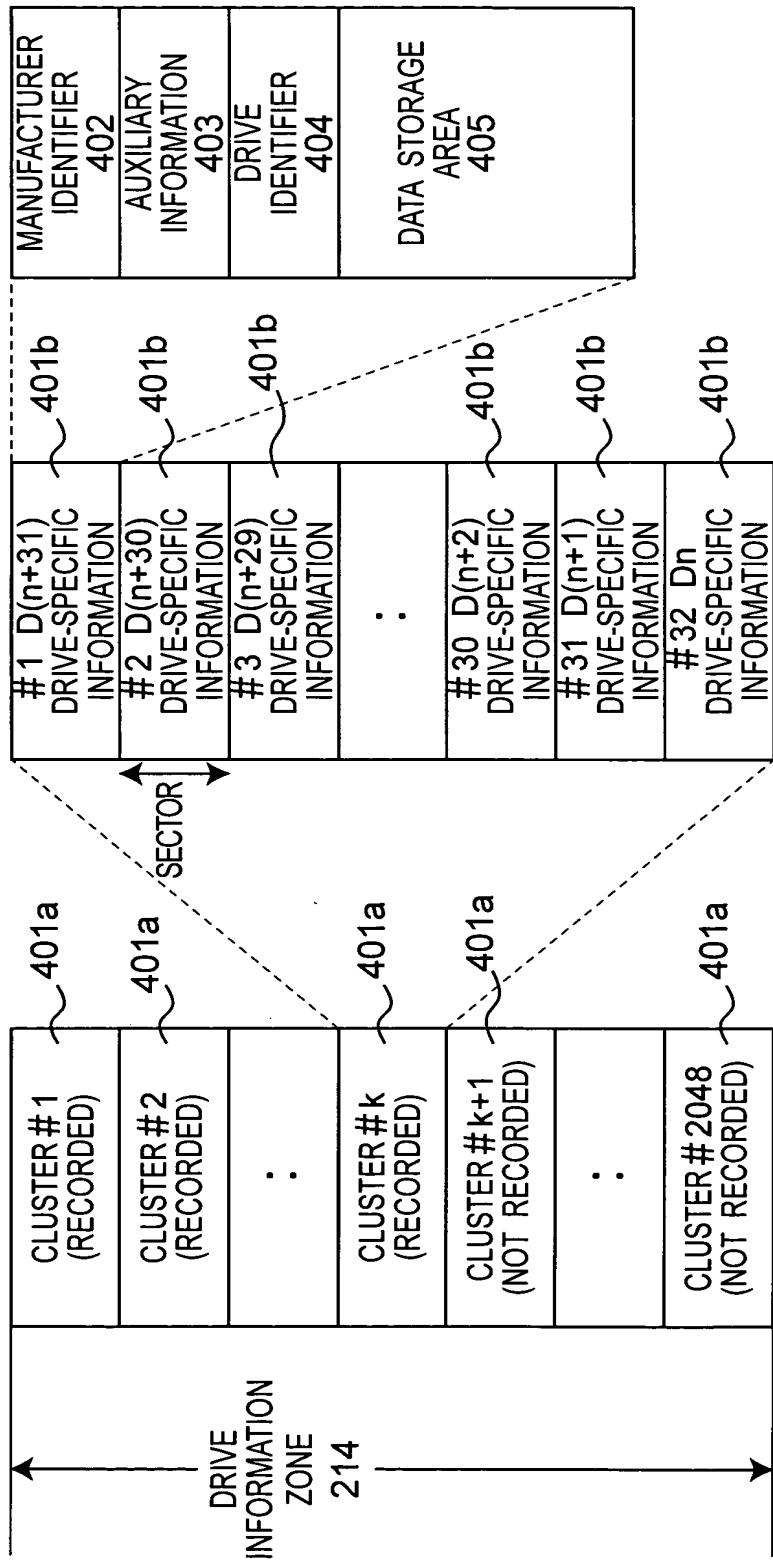


Fig. 4



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Fig. 5

401a

401b

CLUSTER #1	SECTOR #1	D(1)
	SECTOR #2	
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	
	CLUSTER #2	SECTOR #1
	CLUSTER #2	SECTOR #2
	CLUSTER #2	SECTOR #3
	CLUSTER #2	SECTOR #4
	CLUSTER #2	SECTOR #5
	⋮	
	SECTOR #32	
	CLUSTER #3	SECTOR #1
	CLUSTER #3	SECTOR #2
	CLUSTER #3	SECTOR #3
	CLUSTER #3	SECTOR #4
	CLUSTER #3	SECTOR #5
	⋮	
	SECTOR #32	
	CLUSTER #4	SECTOR #1
	CLUSTER #4	SECTOR #2
	CLUSTER #4	SECTOR #3
	CLUSTER #4	SECTOR #4
	CLUSTER #4	SECTOR #5
	⋮	
	SECTOR #32	
	CLUSTER #5	SECTOR #1
	CLUSTER #5	SECTOR #2
	CLUSTER #5	SECTOR #3
	CLUSTER #5	SECTOR #4
	CLUSTER #5	SECTOR #5
	⋮	
	SECTOR #32	

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Fig.6

CLUSTER #1	SECTOR #1	D(1)
	SECTOR #2	
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	⋮	
	SECTOR #32	
	CLUSTER #2	
	SECTOR #1	D(2)
	SECTOR #2	D(1)
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	⋮	
	SECTOR #32	
	CLUSTER #3	
	SECTOR #1	
	SECTOR #2	
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	⋮	
	SECTOR #32	
	CLUSTER #4	
	SECTOR #1	
	SECTOR #2	
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	⋮	
	SECTOR #32	
	CLUSTER #5	
	SECTOR #1	
	SECTOR #2	
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	⋮	
	SECTOR #32	

⋮

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Fig.7

CLUSTER #1	SECTOR #1	D(1)
	SECTOR #2	
	SECTOR #3	
SECTOR #4		
SECTOR #5		
⋮		
SECTOR #32		
CLUSTER #2	SECTOR #1	D(2)
	SECTOR #2	D(1)
	SECTOR #3	
SECTOR #4		
SECTOR #5		
⋮		
SECTOR #32		
CLUSTER #3	SECTOR #1	D(3)
	SECTOR #2	D(2)
	SECTOR #3	D(1)
SECTOR #4		
SECTOR #5		
⋮		
SECTOR #32		
CLUSTER #4	SECTOR #1	
	SECTOR #2	
	SECTOR #3	
SECTOR #4		
SECTOR #5		
⋮		
SECTOR #32		
CLUSTER #5	SECTOR #1	
	SECTOR #2	
	SECTOR #3	
SECTOR #4		
SECTOR #5		
⋮		
SECTOR #32		

⋮

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Fig.8

CLUSTER #1	SECTOR #1	D(1)
	SECTOR #2	
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	
	CLUSTER #2	
	SECTOR #1	D(2)
	SECTOR #2	D(1)
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	
	CLUSTER #3	
	SECTOR #1	D(3)
	SECTOR #2	D(2)
	SECTOR #3	D(1)
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	
	CLUSTER #4	
	SECTOR #1	D(4)
	SECTOR #2	D(3)
	SECTOR #3	D(2)
	SECTOR #4	D(1)
	SECTOR #5	
	⋮	
	SECTOR #32	
	CLUSTER #5	
	SECTOR #1	
	SECTOR #2	
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	

⋮

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Fig.9

CLUSTER #1	SECTOR #1	D(1)
	SECTOR #2	
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	
	CLUSTER #2	
	SECTOR #1	D(2)
	SECTOR #2	D(1)
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	
	⋮	
	CLUSTER #k	
	SECTOR #1	D(k)=D(n+31)
	SECTOR #2	D(n+30)
	SECTOR #3	D(n+29)
	SECTOR #4	D(n+28)
	SECTOR #5	D(n+27)
	⋮	
	SECTOR #32	D(k-31)=D(n)
	CLUSTER #k+1	
	SECTOR #1	
	SECTOR #2	
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	
	⋮	

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Fig. 10

CLUSTER #1	SECTOR #1	D(1)
	SECTOR #2	
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	⋮	
	⋮	
	SECTOR #32	
	CLUSTER #2	
	SECTOR #1	D(2)
	SECTOR #2	D(1)
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	⋮	
	⋮	
	SECTOR #32	
	⋮	
	⋮	
	⋮	
	CLUSTER #k	
	SECTOR #1	D(n+31)
	SECTOR #2	D(n+30)
	SECTOR #3	D(n+29)
	SECTOR #4	D(n+28)
	SECTOR #5	D(n+27)
	⋮	
	⋮	
	⋮	
	SECTOR #32	D(n)
	CLUSTER #k+1	
	SECTOR #1	D(n+32)
	SECTOR #2	D(n+31)
	SECTOR #3	D(n+30)
	SECTOR #4	D(n+29)
	SECTOR #5	D(n+28)
	⋮	
	⋮	
	⋮	
	SECTOR #32	D(n+1)
	⋮	

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Fig. 11

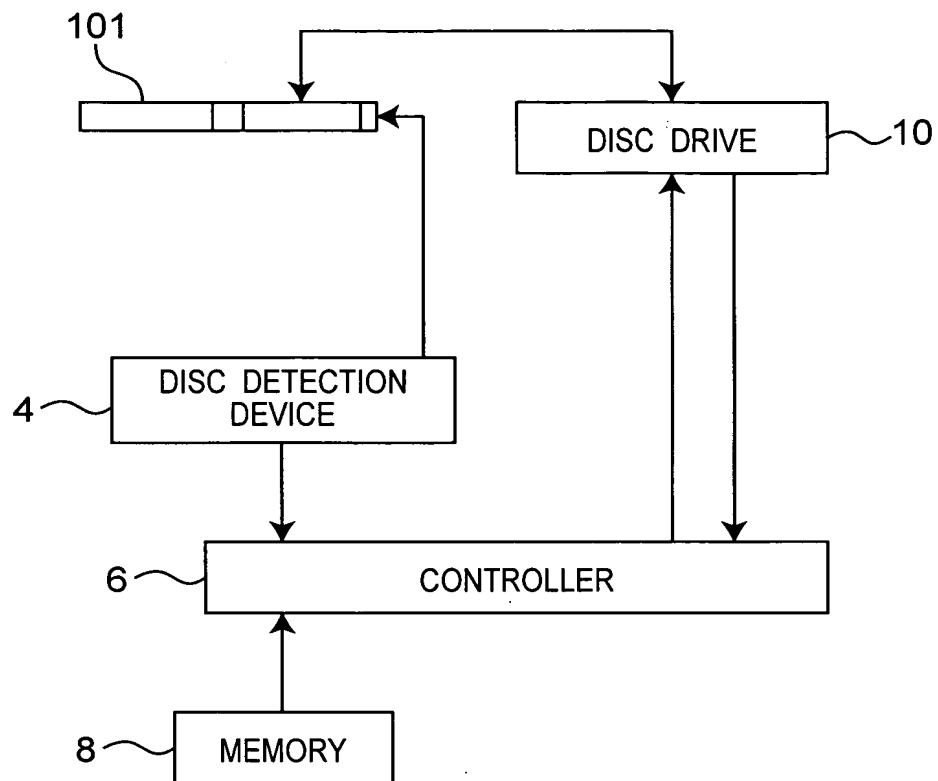
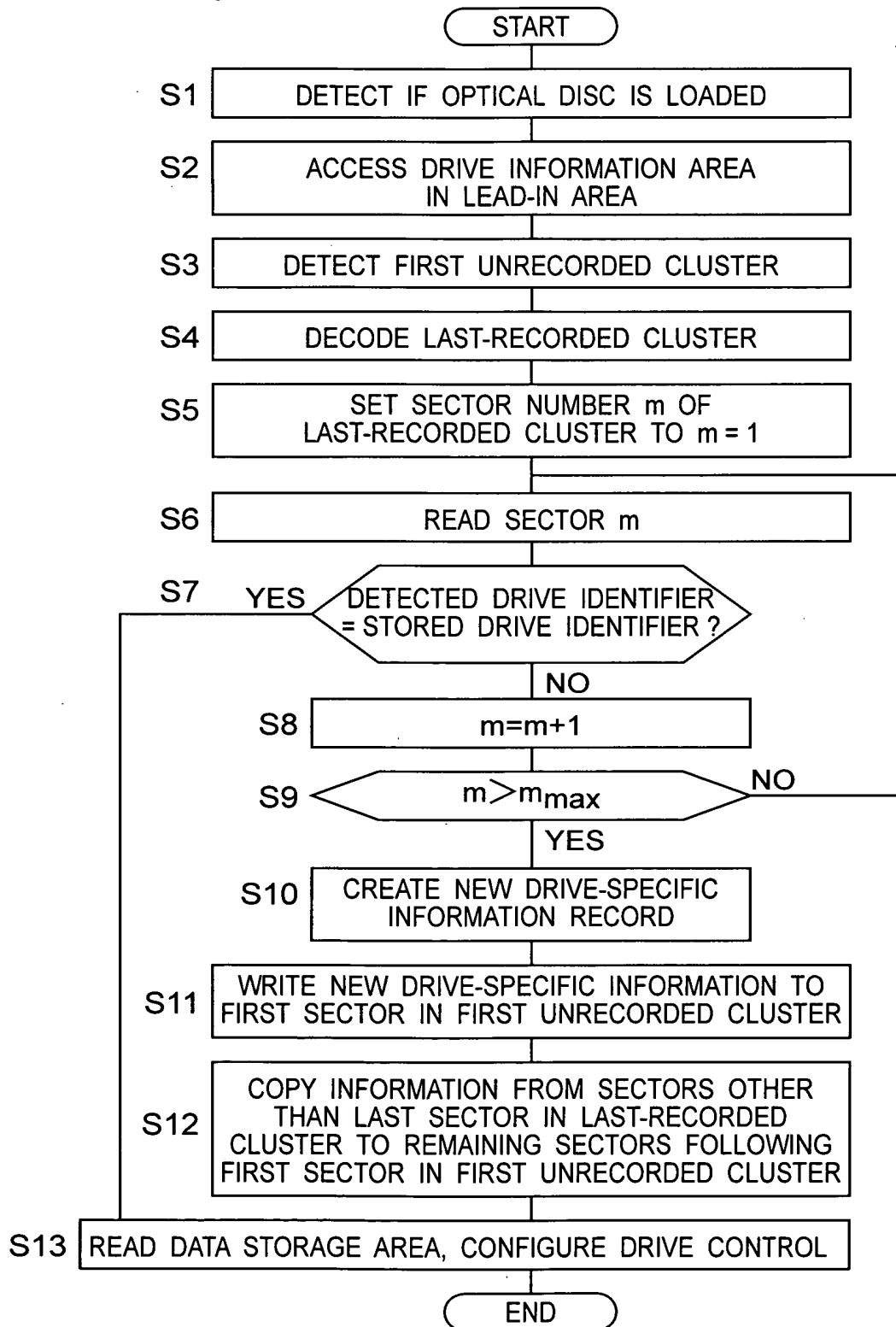
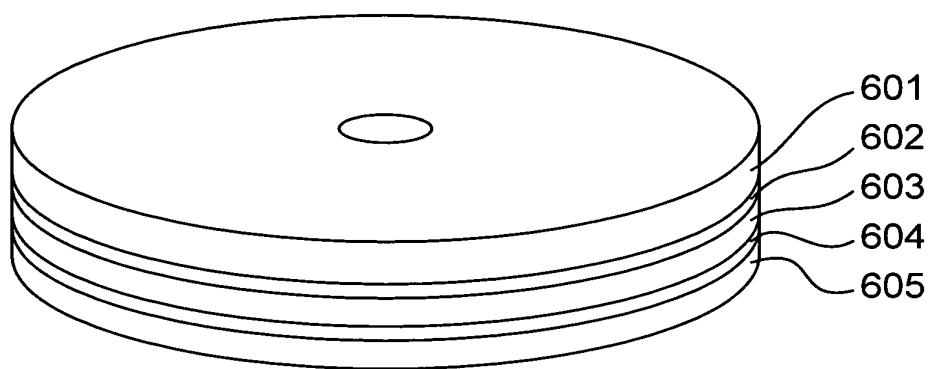


Fig.12



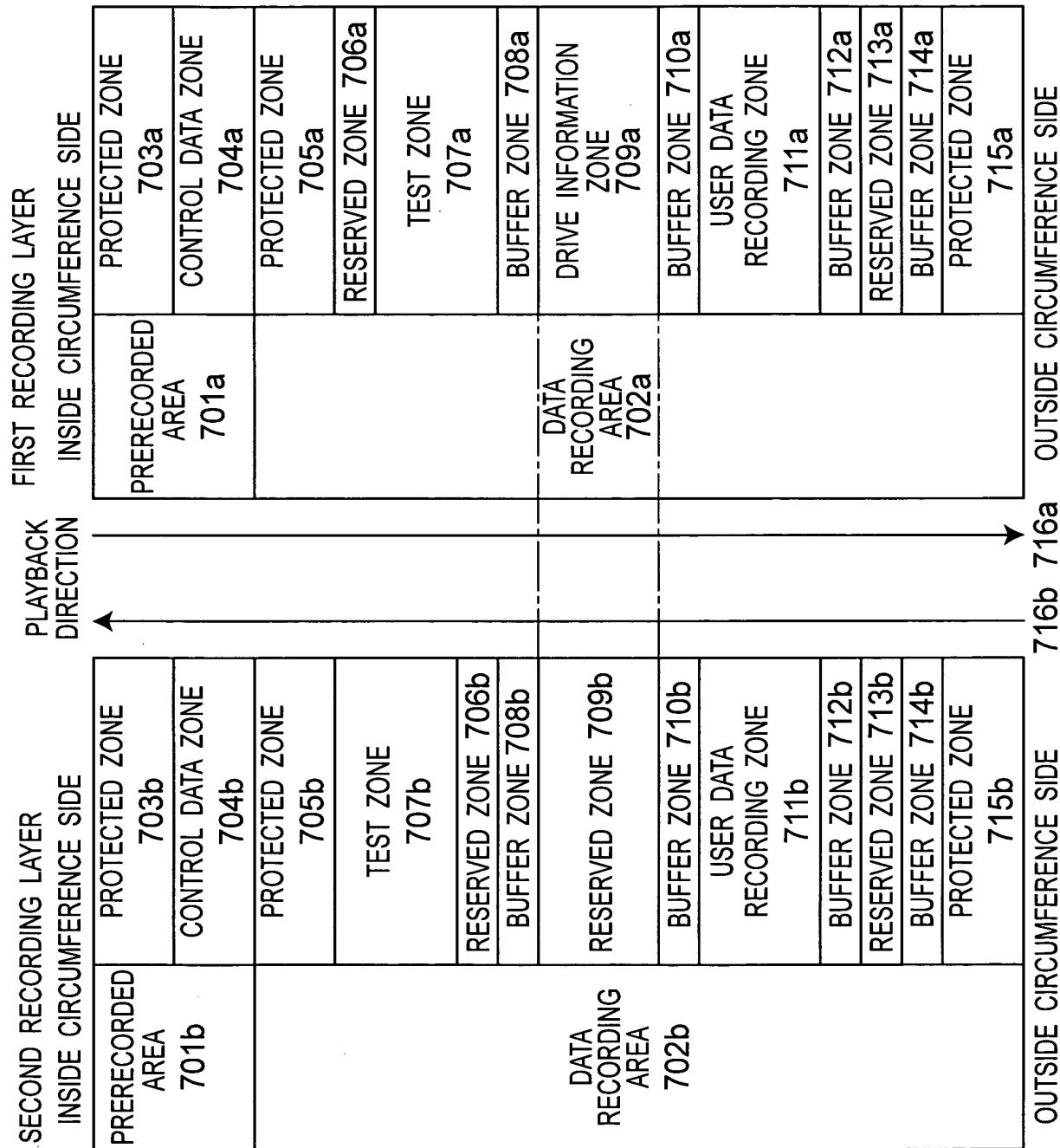
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Fig. 13



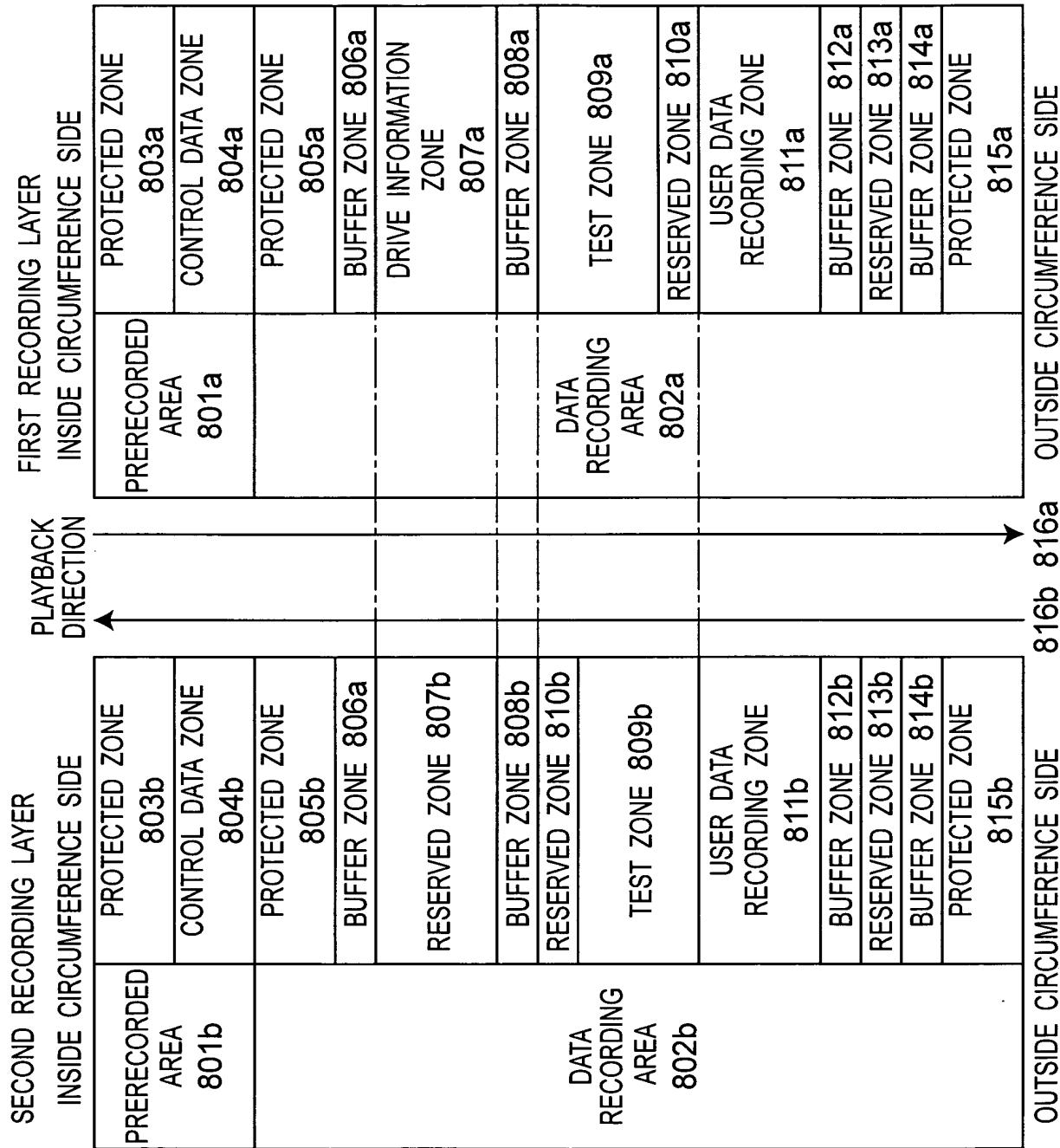
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Fig. 14



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Fig. 15



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Fig.16

CLUSTER #1	SECTOR #1	D(1)
	SECTOR #2	S(1)
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	⋮	
	SECTOR #32	
	CLUSTER #2	SECTOR #1 D(2)
		SECTOR #2 D(1)
		SECTOR #3 S(2)
		SECTOR #4
		SECTOR #5
	⋮	
	⋮	
	SECTOR #32	
	CLUSTER #3	SECTOR #1 D(3)
		SECTOR #2 D(2)
		SECTOR #3 D(1)
		SECTOR #4 S(3)
		SECTOR #5
	⋮	
	⋮	
	SECTOR #32	
	CLUSTER #4	SECTOR #1 D(4)
		SECTOR #2 D(3)
		SECTOR #3 D(2)
		SECTOR #4 D(1)
		SECTOR #5 S(4)
	⋮	
	⋮	
	SECTOR #32	
	CLUSTER #5	SECTOR #1
		SECTOR #2
		SECTOR #3
		SECTOR #4
		SECTOR #5
	⋮	
	⋮	
	SECTOR #32	

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Fig.17

CLUSTER #1	SECTOR #1	S(1)
	SECTOR #2	D(1)
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	
	CLUSTER #2	
	SECTOR #1	S(2)
	SECTOR #2	D(2)
	SECTOR #3	D(1)
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	
	CLUSTER #3	
	SECTOR #1	S(3)
	SECTOR #2	D(3)
	SECTOR #3	D(2)
	SECTOR #4	D(1)
	SECTOR #5	
	⋮	
	SECTOR #32	
	CLUSTER #4	
	SECTOR #1	S(4)
	SECTOR #2	D(4)
	SECTOR #3	D(3)
	SECTOR #4	D(2)
	SECTOR #5	D(1)
	⋮	
	SECTOR #32	
	CLUSTER #5	
	SECTOR #1	
	SECTOR #2	
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	

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Fig. 18

CLUSTER #1	SECTOR #1	S(1)
	SECTOR #2	D(1)
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	
	CLUSTER #2	
	SECTOR #1	S(2)
	SECTOR #2	D(2)
	SECTOR #3	D(1)
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	
	CLUSTER #3	
	SECTOR #1	S(3)
	SECTOR #2	D(2)
	SECTOR #3	D(1)
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	
	CLUSTER #4	
	SECTOR #1	S(4)
	SECTOR #2	D(2)
	SECTOR #3	D(1)
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	
	CLUSTER #5	
	SECTOR #1	
	SECTOR #2	
	SECTOR #3	
	SECTOR #4	
	SECTOR #5	
	⋮	
	SECTOR #32	

⋮